

## ABSTRACT

A hollow fiber membrane module, a hollow fiber membrane module unit using the hollow fiber membrane module, and a water treatment method using the module or the module unit enable the efficient contact of microorganisms on the surface of a membrane with a gas, the module and the unit having excellent durability. The hollow fiber membrane module is formed in such a manner that the end parts of sheet-form hollow fiber membranes are formed in a substantially rectangular shape and the end face of the anchoring member on a side where the hollow fiber membranes open is formed in a substantially circular shape. The hollow fiber membrane module unit is formed in such a manner that a plurality of modules is disposed. The water treatment method is used to purify treated water with the microorganisms adhered onto the outer surfaces of the hollow fiber membranes by using the module or the unit.